

Notice of Allowability

Application No.

10/073,718

Applicant(s)

MANOHARAN ET AL.

Examiner

Jezia Riley

Art Unit

1637

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amdt filed 9/17/03.
2. ☒ The allowed claim(s) is/are 1, 45-53.
3. ☐ The drawings filed on _____ are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- * Certified copies not received: _____.
5. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
 - (a) ☐ The translation of the foreign language provisional application has been received.
6. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**


7. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
8. ☐ CORRECTED DRAWINGS must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No. _____.
 - (b) ☐ including changes required by the proposed drawing correction filed _____, which has been approved by the Examiner.
 - (c) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No. _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet.

9. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|--|
| 1 <input type="checkbox"/> Notice of References Cited (PTO-892) | 2 <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3 <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 4 <input type="checkbox"/> Interview Summary (PTO-413), Paper No. _____. |
| 5 <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449), Paper No. _____. | 6 <input type="checkbox"/> Examiner's Amendment/Comment |
| 7 <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8 <input type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9 <input type="checkbox"/> Other |


JEZIA RILEY
PRIMARY EXAMINER

ALLOWED CLAIMS/ TJ

1 (Currently Amended). A compound comprising a plurality of linked nucleosides, wherein at least one of said nucleosides is functionalized at its 2'-position by attachment of a steroid molecule, a reporter molecule, ~~a non-aromatic lipophilic molecule, a reporter enzyme, a peptide, a protein,~~ a water soluble vitamin, ~~a lipid soluble vitamin,~~ an RNA cleaving complex, ~~a metal chelator,~~ a porphyrin, an alkylator, a hybrid photonuclease/~~intercalator,~~ or an aryl azide photo-crosslinking agent.

45 (Previously Added). A method of effecting cellular uptake of a compound having a plurality of linked nucleosides, comprising contacting an organism with said compound wherein said compound includes at least one heterocyclic base functionalized nucleoside having a steroid molecule, an enzyme, a peptide, a protein, or a vitamin, linked to the heterocyclic base of the nucleoside.

46 (Previously Added). The method of claim 45 wherein said heterocyclic base functionalized nucleoside is functionalized with a steroid molecule.

47 (Previously Added). The method of claim 45 wherein said heterocyclic base functionalized nucleoside is functionalized with an enzyme, a peptide or a protein.

48 (Previously Added). The method of claim 45 wherein said heterocyclic base functionalized nucleoside is functionalized with a vitamin.

49 (Previously Added). A method of effecting cellular uptake of a compound having a plurality of linked nucleosides, comprising contacting an organism with said compound wherein said compound includes at least one inter-strand nucleoside having a steroid molecule, an enzyme, a peptide, a protein, or a vitamin linked to an inter-strand linkage linking said inter-strand nucleoside to an adjacent nucleoside.

50 (Previously Added). The method of claim 49 wherein said inter-strand nucleoside has a steroid molecule linked to an inter-strand linkage linking said inter-strand nucleoside to an adjacent nucleoside.

51 (Previously Added). The method claim 50 wherein said inter-strand linkage is not the inter-strand linkage between the first and the second nucleosides at the 3' terminus or the 5' terminus of said oligonucleotide.

52 (Previously Added). The method of claim 49 wherein said inter-strand nucleoside has an enzyme, a peptide or a protein linked to an inter-strand linkage linking said inter-strand nucleoside to an adjacent nucleoside.

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53 (Previously Added). The method claim 49 wherein said inter-strand nucleoside has a vitamin linked to an inter-strand linkage linking said inter-strand nucleoside to an adjacent nucleoside.